

Commissioner for Patents  
Amendment dated September 8, 2004  
Response to Office Action dated June 8, 2004  
Page 5 of 12

Serial: 10/607958  
Art Unit: 2835  
Examiner: Chervinsky  
Docket No. RPS9 2003 0066 US1

### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

### Listing of Claims:

1 (currently amended). A device for use in cooling a microelectronic component in a data processing system with a heat sink and a fan, comprising:

~~{means}~~ a fan shroud including a carrier defining a cavity for receiving the fan, the fan shroud configured to maintain {for maintaining} the fan in close proximity to the heat sink and in a position relative to the fan for moving air over the cooling surfaces of the heat sink; and

wherein the fan shroud includes a component to vibrationally isolate the fan from the heat sink and reduce the transmission of fan vibration to the heat sink.

2 (currently amended). The device of claim 1, wherein the vibration isolation component ~~{is configured to receive the fan and secure the fan in position relative to the heat sink to locate the fan in a predetermined position relative to the heat sink}~~ comprises a base portion of the carrier.

3 (original). The device of claim 2, wherein the vibration isolation component is further characterized as a solid elastomeric vibration isolation component.

4 (original). The device of claim 2, wherein the vibration isolation component is further characterized as a foam elastomeric vibration isolation component.

5 (currently amended). The device of claim 2, wherein the ~~{vibration isolation component}~~ shroud comprises:

~~{a metal element}~~ rigid legs to support the fan and attach to the heat sink; and

~~{a solid}~~ an elastomeric element affixed to the fan {fan; and

~~a foam elastomeric element affixed to sections of the metal element attached to the heat sink, thereby vibrationally isolating the metal element sections}~~

6 (canceled).

7 (currently amended). The device of claim 1, wherein the vibration isolation component comprises a compliant gasket defining an opening ~~{adapted to receive an active area of the fan}~~ to allow air flow generated by the fan to reach the heat sink.

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Commissioner for Patents  
Amendment dated September 8, 2004  
Response to Office Action dated June 8, 2004  
Page 6 of 12

Serial: 10/607958  
Art Unit: 2835  
Examiner: Chervinsky  
Docket No. RPS9 2003 0066 US1

8 (canceled).

9 (original). The device of claim 7 in which the compliant gasket is a molded solid elastomer.

10 (original). The device of claim 7 in which the compliant gasket is a molded foam elastomer.

11 (currently amended). An assembly for use in cooling a microelectronic component in a data processing system, comprising:

a heat sink and a blower fan;

~~{means}~~ a fan shroud including a carrier defining a cavity for encapsulating the fan, wherein the shroud ~~{for maintaining}~~ maintains the fan in close proximity to the heat sink and in a position relative to the fan for moving air over the cooling surfaces of the heat sink; and

wherein the fan shroud includes a component to vibrationally isolate the fan from the heat sink and reduce the transmission of fan vibration to the heat sink.

12 (currently amended). The assembly of claim 11, wherein the vibration isolation component comprises a compliant gasket defining an opening ~~[of the size and geometry of the active area of the fan]~~, and further wherein the ~~{means for maintaining the fan in proximity to the heat sink comprises a fan shroud attachable to the heat sink and providing}~~ fan shroud provides a surface defining an opening ~~[of the size and geometry of the active area of the fan thereby]~~ allowing airflow from the fan to reach the heat sink and wherein an adhesive material adheres the ~~{a}~~ first surface of the compliant gasket to the fan and an opposing surface to the fan shroud.

13 (original). The assembly of claim 12 in which the compliant gasket is a molded solid elastomer.

14 (original). The assembly of claim 12 in which the compliant gasket is a molded foam elastomer.

15 (canceled).

16 (currently amended). The device of claim ~~[15]~~ 11, wherein the vibration isolation component is further characterized as a solid elastomeric vibration isolation component.

17 (currently amended). The device of claim ~~[15]~~ 11, wherein the vibration isolation component is further characterized as a foam elastomeric vibration isolation component.

18 (currently amended). An apparatus for use in conjunction with dissipating heat generated by an integrated circuit with a heat sink and a fan, comprising ~~{an}~~ a vibration isolation component

Commissioner for Patents  
Amendment dated September 8, 2004  
Response to Office Action dated June 8, 2004  
Page 7 of 12

Serial: 10/607958  
Art Unit: 2835  
Examiner: Chervinsky  
Docket No. RPS9 2003 0066 US1

integrated with a fan shroud component wherein the fan shroud attaches the fan to the heat sink and wherein the vibration isolation component is disposed between the fan and the heat sink and wherein the isolation component is configured to reduce the transmission of fan vibration to the heat sink and wherein the fan shroud includes a carrier defining a cavity sized to encapsulate the fan wherein a base of the carrier structure provides the vibration isolation element and defines an opening.

19 (currently amended). The apparatus of claim 19, ~~[wherein the fan shroud includes a carrier structure defining a cavity sized to receive the fan wherein a base of the carrier structure provides the vibration isolation element and defines an opening the size of an active area of the fan]~~ further comprising legs and cross-bands connecting opposing pairs of legs, the legs extending from the base and having a length approximately the height of the heat sink wherein the cross-bands and legs are configured to surround a perimeter of the heat sink.

20 (currently amended). The apparatus of claim 19, ~~[further comprising]~~ wherein the legs and cross-bands ~~[connecting opposing pairs of legs, the legs extending from the base and having a length approximately the height of the heat sink wherein the cross bands and legs are configured to surround a perimeter of the heat sink]~~ comprise a rigid polymer and wherein the carrier structure and the vibration isolation element comprise an elastomer.

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